

CPSA 6 (M) Chared

# U.S. CONSUMER PRODUCT SAFETY COMMISSION WASHINGTON, D.C. 20207

June 15, 1995

Mtg Log of 6/1/95

Corrate

Mr. James Beyreis Vice President, Engineering Underwriters Laboratories Inc. 333 Pfingsten Road Northbrook, IL 60062-2096

Re: Twist-on Wire Connectors for Aluminum Wire

Dear Jim:

Thank you for meeting with CPSC staff members to discuss the twist-on wire connectors. Enclosed is a meeting log that we prepared:

Under separate cover, we forwarded copies of the documents from our files that were discussed at the meeting.

If assistance is needed in obtaining specimens of aluminum wiring of the types installed in homes, please let us know.

Sincerely,

Andrew G. Stadnik, P.E.

Associate Executive Director

Engineering Sciences

### Enclosures

c: Phillip L. Sawyer, Vice President, Engineering Ideal Industries, Inc. Becker Place Sycamore, IL 60178

# LOG OF MEETING

SUBJECT: Twist-on Wire Connectors for Aluminum Wire

DATE: June 1, 1995 PLACE: Room 410 B/C

East West Towers

DATE OF LOG ENTRY: June 15, 1995

SOURCE OF LOG ENTRY: William H. King, Jr., ESEE 2440

# CPSC PARTICIPANTS:

William H. King, Jr., ESEE Andrew Stadnik, ES Linda Edwards, ESEE Aaron Banerjee, ESEE Ed Krawiec, ESEE Marc Schoem, CCA (a.m. only) John Fitch, CCA (p.m. only)

### NON-CPSC PARTICIPANTS:

Jerry Kopstein, Underwriters Laboratories Inc. (UL) Jake Killinger, UL Jim Beyreis, UL Peter Pollak, Aluminum Association Phil Sawyer, Ideal Industries, Inc. Bill Blaha, Ideal Industries, Inc.

#### SUMMARY:

Following the recent announcement by Underwriters
Laboratories Inc. that a twist-on wire connector has been listed
by UL for use with aluminum-to-copper conductors for the first
time since 1987, CPSC staff raised safety concerns with the
application of this product to existing homes wired with aluminum
wiring. Those concerns led to the meeting covered by this log.

Mr. King provided the explanation of the CPSC staff concerns as documented in the CPSC letter of May 1, 1995 to UL. UL, Ideal and the CPSC staff discussed their position and views on each of the ten issues covered in the letter.

Following the exchange of views, the parties agreed to the following:

1. CPSC staff will provide UL with copies of the reports that led to the selection of the aluminum wiring repair recommendations contained in the CPSC booklet "Repairing Aluminum Wiring". CPSC will also provide copies of reports related to environmental testing of electrical connections involving aluminum wire, and testing of twist-on connectors with aluminum

wire.

- 2. UL will consider further how representative the aluminum wire stock used in the UL testing is to conductors installed in homes.
- 3. UL will consider inclusion of environmental test conditions in the performance requirements of their standard.
- 4. UL will review the human factors issues involved in consumer application of twist-on connectors for aluminum wire.
- 5. UL will consider hot-wire ignition as a test method applicable to flammable parts of the twist-on connector for aluminum wire.
- 6. UL will consider additional testing of the connector using electric current flowing between conductors of similar metals, including AL-to-AL, when these are part of the listed AL-CU wire combinations.

It was agreed by the parties to get back in touch with each other, via a conference call, in approximately six weeks from the date of this meeting to further pursue this matter.